

sensing of hand signal in the field of view of a function key sensor of a imaging sensor lit up by color light of a control spot generator;
capturing a hand gesture images by one or multiple cameras in a control spot;
issuing, by a processor, a control command based on the assigned task of the function key sensor, the assigned task of the hand gesture, or both, sample of the image area to form an image pixel;
converting the image pixel to a function key pixel; and
controlling an apparatus by blocking a field of view of the function key pixel.

10. A diffuser based control system comprising:
a diffuser for smearing background details while keeping details for target near it,
a imaging sensor for capturing hand gestures
one or more function key sensors constructed from selected pixels of the imaging sensor
a light source for illuminating the target;
control spots for identifying field of views of function key sensors;
a processor for processing a combination of hand gesture images, function key sensor signals, and converting them into commands; and
a transceiver for sending commands to and receiving information from a control apparatus.

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